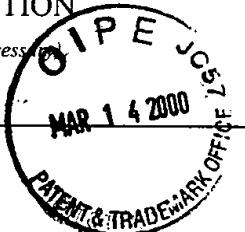


Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket Number 432722002621	Application Number 09/421,545
		Applicant	Gregory R. MUNDY <i>et al.</i>
		Filing Date October 20, 1999	Group Art Unit 1646 <i>1651</i>
		Mailing Date March 10, 2000	



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
RG	1.	8/1988	4,761,471	Urist	530	350	
	2.	1/1994	5,280,040	Labroo <i>et al.</i>	514	457	
	3.	12/1996	5,580,854	Orlowski <i>et al.</i>	514	18	
	4.	3/1998	5,728,844	Muller <i>et al.</i>	548	472	
	5.	6/1998	5,767,152	Nielsen <i>et al.</i>	514	526	
	6.	7/1998	5,780,454	Adams <i>et al.</i>	514	64	
	7.	10/1998	5,824,643	Pierce <i>et al.</i>	514	12	
	8.	6/1999	5,910,497	Durette <i>et al.</i>	514	253	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
RG	9.	10/1990	WO 90 11366	WIPO			
	10.	3/1992	WO 92 03125	WIPO			
	11.	10/1993	WO 93 20859	WIPO			
	12.	9/1995	WO 95 24211	WIPO			
	13.	9/1995	WO 95 25533	WIPO			
	14.	12/1996	WO 96 38590	WIPO			
	15.	3/1997	WO 97 09315	WIPO			
	16.	5/1997	WO 97 15308	WIPO			
	17.	7/1997	WO 97 23457	WIPO			
	18.	10/1997	WO 97 38699	WIPO			
	19.	12/1997	WO 97 48694	WIPO			
	20.	4/1998	WO 98 17267	WIPO			
	21.	6/1998	WO 98 25460	WIPO			
	22.	10/1998	DE 197 16 713	Germany			
	23.	7/1999	EP 0 931 544	Europe			

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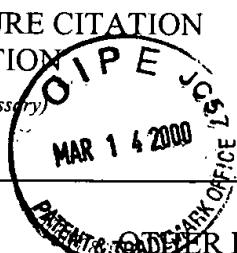
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PERTINENT DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
RG	24.	Abu-Amer <i>et al.</i> , "NF- κ B and Bone: The Breaking Point," NATURE MEDICINE (1997) 3(11):1189-1190
	25.	Adams <i>et al.</i> , "Chapter 28. Novel Inhibitors of the Proteasome and their Therapeutic Use in Inflammation," ANNUAL REPORTS IN MEDICINAL CHEMISTRY (1996) 279-288
	26.	Ahmed <i>et al.</i> , "Alopecia Universalis Associated with a Mutation in the Human Hairless Gene," SCIENCE (1998) 279:720-724
	27.	Bangham <i>et al.</i> , "Diffusion of Univalent Ions Across the Lamellae of Swollen Phospholipids," J MOL BIOL (1965) 23:238-252
	28.	Barnes <i>et al.</i> , "Nuclear Factor - κ B - A Pivotal Transcription Factor in Chronic Inflammatory Diseases," NEW ENGL J MED (1997) 336:1066-1071
	29.	Baumeister <i>et al.</i> , "The Proteasome:Paradigm of a Self-Compartmentalizing Protease," CELL(1998) 92:367-380
	30.	Beck <i>et al.</i> , "Rapid Publication TGF- β ₁ Induces Bone Closure of Skull Defects," J BONE MINER RES (1991) 6(11):1257-1265
	31.	Bellows <i>et al.</i> , "Determination of the Capacity for Proliferation and Differentiation of Osteoprogenitor Cells in the Presence and Absence and Absence of Dexamethasone," DEVELOP BIOL (1990) 140:132-138
	32.	Blessing <i>et al.</i> , "Transgenic Mice as a Model to Study the Role of TGF- β -Related Molecules in Hair Follicles," GENES AND DEVELOP (1992) 7:204-215
	33.	Burgener <i>et al.</i> , "Fluoride Increase Tyrosine Kinase Activity in Osteoblast-like Cells: Regulatory Role for the Stimulation of Cell Proliferation and Pi Transport Across the Plasma Membrane," J BONE MINER RES (1995) 10:164-171
	34.	Caplan, "Mesenchymal Stem Cells" J ORTHOP RES (1991) 9:641-650
	35.	Casez <i>et al.</i> , "Dual-Energy X-Ray Absorptiometry for Measuring Total Bone Mineral Content in the Rat:Study of Accuracy and Precision," BONE AND MINER (1994) 26:61-68
	36.	Cui <i>et al.</i> , "Lovastatin Prevents Steroid-Induced Adipogenesis and Osteoporosis," ASBMR 18th Annual Meeting (September 1996) J BONE MINER RES (1996) 11(S1):S510
	37.	Ducy <i>et al.</i> "Increased Bone Formation in Osteocalcin-deficient Mice," NATURE (1996) 382:448-452
	38.	Edelman <i>et al.</i> , "Controlled and Modulated Release of Basic Fibroblast Growth Factor," BIOMATERIALS (1991) 12:619-626
	39.	Ferretti, "Perspectives of pQct Technology Associated To Biomechanical Studies in Skeletal Research Employing Rat Models," BONE (1995) 17:353S-364S

EXAMINER:

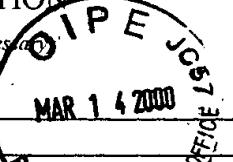
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126	56.	Majeska <i>et al.</i> , "Maintenance of Parathyroid Hormone Response in Clonal Rat Osteosarcoma Lines," EXP CELL RES (1984) 145:465-467		
	57.	Mayer <i>et al.</i> , "Vesicles of Variable Sizes Produced by a Rapid Extrusion Procedure," BIOCHIM BIOPHYS ACTA (1986) 858:161-168		
	58.	Murray <i>et al.</i> , "The Ubiquitin-Proteasome System and Cellular Proliferation and Regulation in Osteoblastic Cells," EXPERIMENTAL CELL RESEARCH (1998) 242:460-469		
	59.	Olson <i>et al.</i> , "Preparation of Liposomes of Defined Size Distribution by Extrusion Through Polycarbonate Membranes," BIOCHIM BIOPHYS ACTA (1979) 557:9-23		
	60.	Orford <i>et al.</i> , "Serine Phosphorylation-Regulated Ubiquitination and Degradation of β -Catenin," J BIOL CHEM (1997) 272:24735-24738		
	61.	Ozaki <i>et al.</i> , "NF- κ B Inhibitors Stimulate Apoptosis of Rabbit Mature Osteoclasts and Inhibit Bone Resorption by these Cells," FEBS LETTERS (1997) 410:297-300		
	62.	Pahl <i>et al.</i> , "The Immunosuppressive Fungal Metabolite Gliotoxin Specifically Inhibits Transcription Factor NF- κ B," J EXP MED (1996) 183:1829-1840		
	63.	Patent Abstracts of Japan (August 12, 1993) 17:436 (C-1096)		
	64.	Patent Abstracts of Japan (June 20, 1987) 11:193 (C-430)		
	65.	Patent Abstracts of Japan (April 25, 1986) 10:112 (C-342)		
	66.	Rickard <i>et al.</i> , "Induction of Rapid Osteoblast Differentiation in Rat Bone Marrow Stromal Cell Cultures by Dexamethasone and BMP-2," DEVELOP BIOL (1994) 161:218-228		
	67.	Sampath <i>et al.</i> , "Isolation of Osteogenin, an Extracellular Matrix-Associated, Bone-Inductive Protein, by Heparin Affinity Chromatography," PROC NATL ACAD SCI USA (1987) 84:7109-7113		
	68.	Szoka <i>et al.</i> , "Procedure for Preparation of Liposomes With Large Internal Aqueous Space and High Capture by Reverse-Phase Evaporation," PROC NATL ACAD SCI USA (1978) 75:4194-4198		
	69.	Tencer <i>et al.</i> , "The Effect of Local Controlled Release of Sodium Fluoride on the Stimulation of Bone Growth," J BIOMED MAT RES (1989) 23:571-589		
	70.	Vinitsky <i>et al.</i> , "Inhibition of the Proteolytic Activity of the Multicatalytic Proteinase Complex (Proteasome) by Substrate-Related Peptidyl Aldehydes," J BIOL CHEM. (1994) 269(47):29860-29866		
	71.	Wang <i>et al.</i> , "Lipid Clearing Agents in Steroid-Induced Osteoporosis," J FORMOS MED ASSOC (1995) 94:589-592		
	72.	Wojcik <i>et al.</i> , "Ubiquitin-Mediated Proteolysis Centers in HeLa Cells: Indication from Studies of an Inhibitor of the Chymotrypsin-Like Activity of the Proteasome," EUR J CELL BIOL (1996) 71:311-318		
	73.	Wozney, "The Bone Morphogenetic Protein Family as Osteogenesis," MOLEC REPROD DEV (1992) 32:160-167		

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